

WA Gas Consultative Forum

2 November 2022



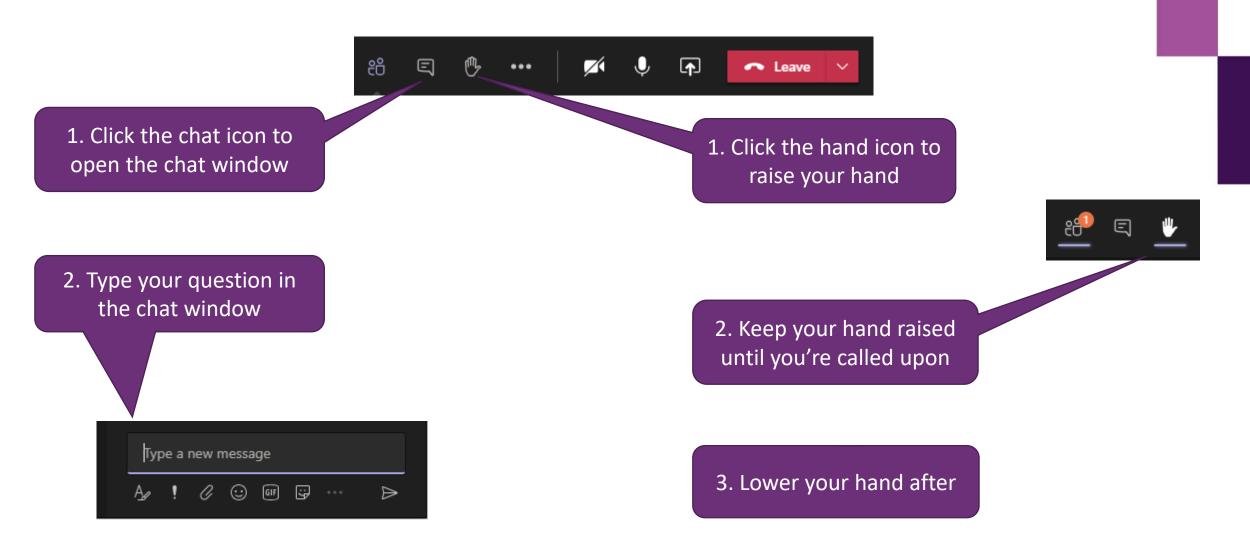


We acknowledge that this meeting is being held on Aboriginal land, the land of the Whadjuk people of the Noognar Nation.

We pay respect to their Elders past, present and emerging.



Join the Discussion and Teams







ITEM	TIME	TOPIC	PAPERS	RESPONSIBLE	ACTION
1.	1.00pm - 1.10pm	Welcome and Minutes - WAECF (20 July 2022)	Minutes	Chair (AEMO)	Endorsement
2.	1.10pm - 1.20pm	Publication of Tanker Gas Information on the Gas Bulletin Board (GBB)	Presentation	Sonia Botero (AEMO)	Note / Discussion
3.	1.20pm - 1.45pm	Updated gas supply and demand forecast	Presentation	Christopher Meredith (AEMO)	Note / Discussion
4.	1.45pm - 2.15pm	Changes associated with Hydrogen in the Gas System - implications of changes to the National Gas Laws	Presentation	Kaitlin Bond (EPWA)	Note / Discussion
5.	2.15pm - 2.35pm	2022 Year in Review	Presentation	Sonia Botero (AEMO)	Note / Discussion
6.	2.35pm - 2.40pm	Other Business	N/A		Note / Discussion
7.	2.40pm	Next meeting - TBA	N/A	Chair	Note

^{*}Please not this meeting will be recorded for minute production



GBB Trucking Rule Change GRC 2022 01

Presented to WA Gas Consultative Forum

By Sonia Botero, Analyst, WA Market Operations and Support

2 November 2022



GSI Rule Change



Background

- Registered Production Facility Operators to provide data to AEMO on the volume of LNG that Production Facility Operators transport from their Registered Production Facilities by road Tankers;
- AEMO to publish these gas volumes on the Gas Bulletin Board (GBB); and
- The data to be provided and published on a monthly basis.

Amending Rules

- GSI Rule 73A: Registered Production Facility
 Operators to provide Monthly Trucked Gas Data
- GSI Rule 89A: Publication of Monthly Trucked Gas Data on GBB
- Glossary definitions:
 - o Production Facility
 - o Monthly Trucked Gas Data
 - o Tanker

The Amending Rules will become effective at 08:00 am on 1 December 2022

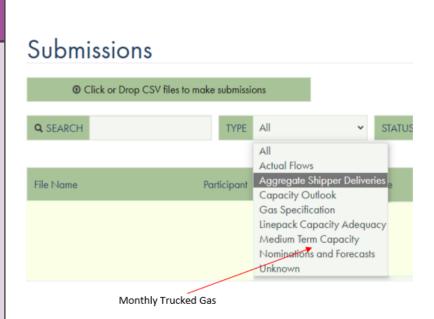


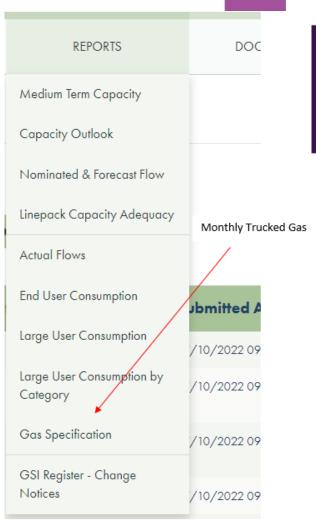


IT System Changes

Nov 16 - Market Trial Environment Nov 23 - Production Environment

- New "Monthly Trucked Gas" submission type via UI and API.
- Included "Monthly Trucked Gas Data" in the Reports section to allow viewing and downloading historical data via UI and API.
- Internal submission and report publication compliance monitoring.
- Updates to documentation.







Questions and Feedback

Market Operations

wa.operations@aemo.com.au

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Potential gas supply and demand forecasts

Presented to WA Gas Consultative Forum

By Christopher Meredith, Analyst, WA

2 November 2022



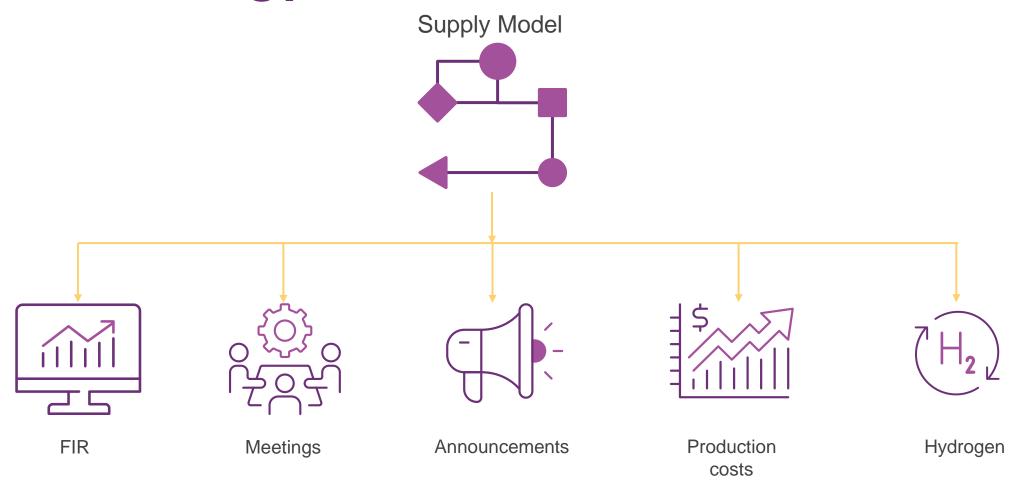
Agenda



- 1. Forecasting approach and methodology
- 2. Updated Potential gas supply forecasts
- 3. Updated supply-demand balance
- 4. Comparison to the 2021 WA GSOO
- 5. Questions



Forecasting approach and methodology





Potential WA domestic gas supply

Potential WA domestic gas supply is:

- Gas that could be made available to the WA domestic market given forecast prices and production costs, capped by the availability of processing capacity and gas reserves.
- It does not project how much gas <u>will</u> be produced, but how much <u>could</u> be produced.



Updated potential WA domestic gas supply forecast model (base scenario)

	Existing/committed domestic only	Existing/committed LNG-linked	Prospective domestic only	Prospective LNG-linked
Model logic	Potential gas supply equals the minimum of: Production capacity or Decline rate advised by the gas Market Participant in the FIR*	Either: • Domestic Market Obligation (DMO), where the DMO is less than the nameplate plant capacity or • Nameplate capacity less 15% based on historical availability to account for plant maintenance, where the plant capacity is equal to the DMO.	Developed when domestic price forecast exceeds the estimated long-run cost (LRC) and when indicated by operator (with contingency) Potential gas supply equals the minimum of: Production capacity or Decline rate based on similar fields in the same basin.	Developed when the forecast Asian LNG netback price exceeds the estimated LRC and when indicated by operator (with contingency) Once developed, potential gas supply equals the DMO.
Projects included in the model	Beharra Springs, Devil Creek, Macedon, Varanus Island, Waitsia Stage 1, Walyering	Gorgon, KGP, Pluto, Wheatstone, Waitsia Stage 2, Scarborough	West Erregulla	N/A

^{*} Where remaining reserves are insufficient to maintain production for the entire outlook period.

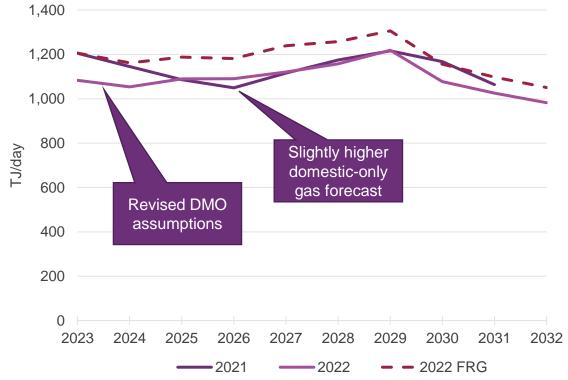
2022 WA GSOO - supply



FRG feedback: "Gas supply forecast is too high"

- Updated supply modelling More consistent with 2021 WA GSOO forecast
- Updated DMO assumptions
 - · Previously full DMO delivery
 - · Updated to forecast based on actual DMO delivery
- Updated understanding of Pluto DMO obligations
 - Acceleration gas
 - Additional commitment

Potential gas supply forecasts 1,400



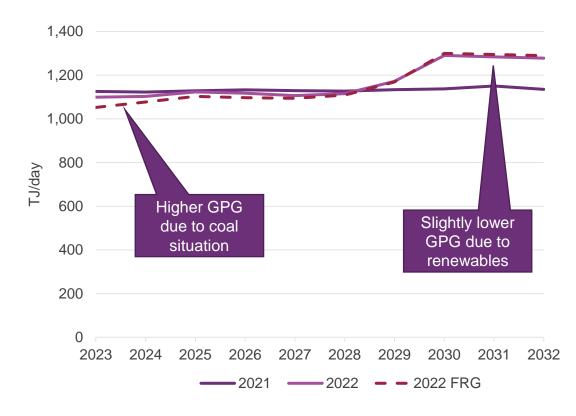


2022 WA GSOO - demand

FRG feedback: "Power generation forecast is too low"

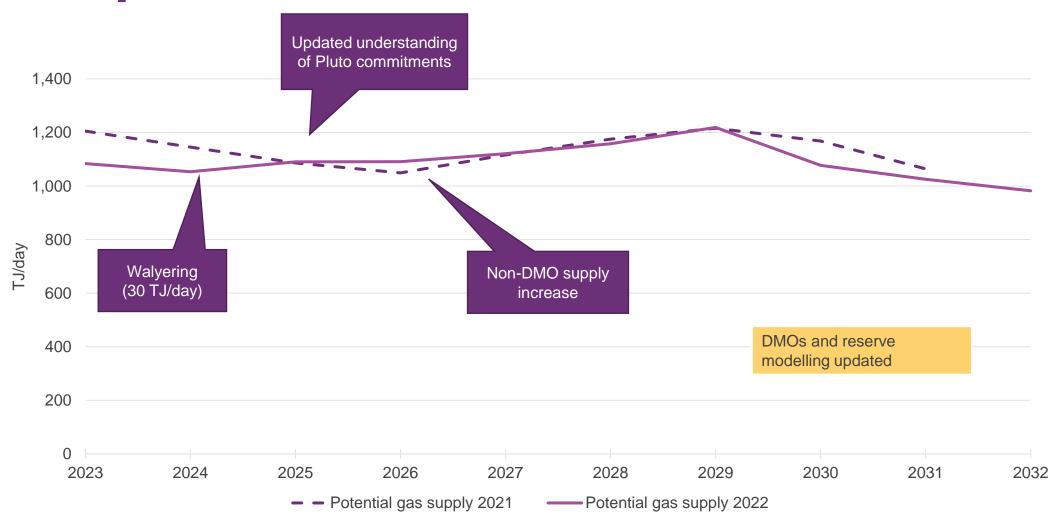
- Revisited GPG modelling with AEMO's consultants
- Previous assumptions:
 - Full resumption of coal power in Jan 2023
 - Limited renewables impact
- Updated to include:
 - A revised outlook for coal recovery in 2023 based on the current situation for the base and high scenarios
 - A greater impact from renewables in the late 2020s

Total demand forecasts



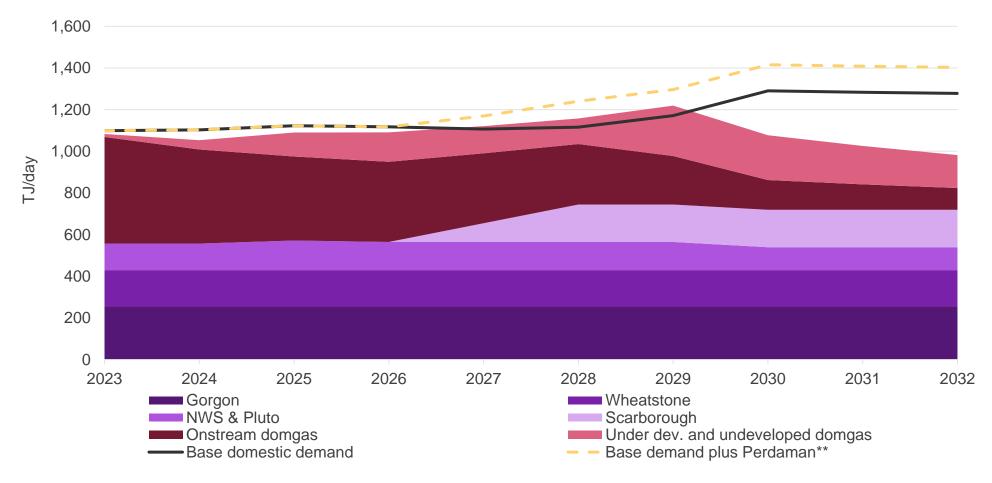


Comparison to 2021 WA GSOO





Potential gas supply and demand (base scenario)*



^{*}Includes prospective gas supply projects: no FID but expected to be developed during the outlook period given forecast LNG/domestic gas prices

** For this illustration, we have assumed Perdaman comes online in mid-2027 at 125 TJ/day



Please reach out to the WA Reserve Capacity team at wa.capacity@aemo.com.au for any questions



GBB (WA) 2022 Year in Review

Presented to WA Gas Consultative Forum

By Sonia Botero, Analyst, WA Market Operations and Support

2 November 2022





Agenda



- GBB System Updates
- Registration Activity
- 2022 Observations
 - Linepack Capacity Adequacy
 - Gas Supply and Demand
 - Storage



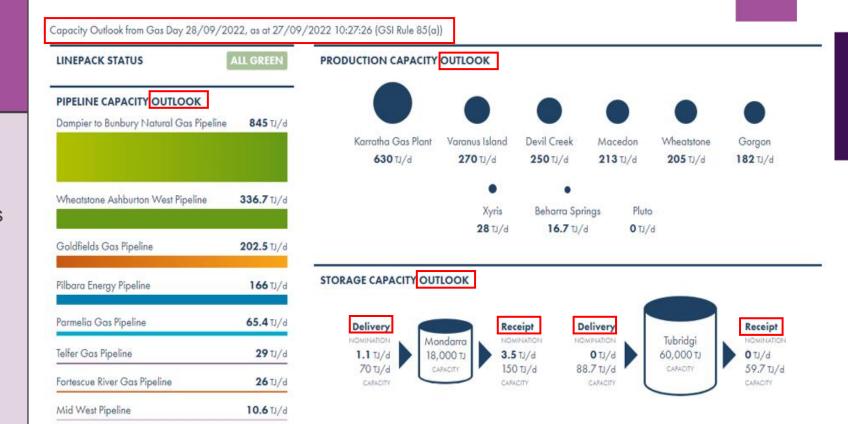


GBB 1.18

Nov 16 - Market Trial Environment Nov 23 - Production Environment

At the request of Gas Market Participants AEMO will implement the following changes:

- Storage Capacity Graphic Barrel modified to include "Delivery" and "Receipt" labels.
- Updated Maps Section to indicate the precise report that produces the visualisations, including timestamps for Gas Day and Publication Time and clarification of data being displayed.



Capacity Outlook Report





Participant Registrations

Greenstone Resources (WA) Pty Ltd

Gas Shipper Effective 07/03/2022

Participant Deregistration

APT Facility Management Pty Limited

Gas Shipper Effective 30/08/2022

Barrick (Plutonic) Ltd

Gas Shipper Effective 05/10/2022

IPM (Kwinana) Pty Ltd

Gas Shipper Effective 31/08/2022

Neometals Energy Pty Ltd

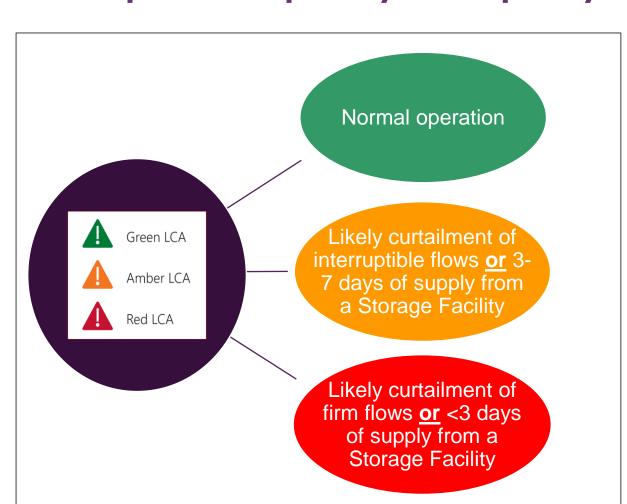
Gas Shipper Effective 08/06/2022

Facility Deregistration

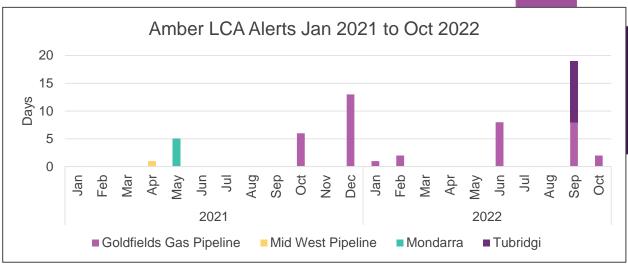
Kwinana Cogeneration Plant

Large User Effective: 4/03/2022

2022 Observations Linepack Capacity Adequacy



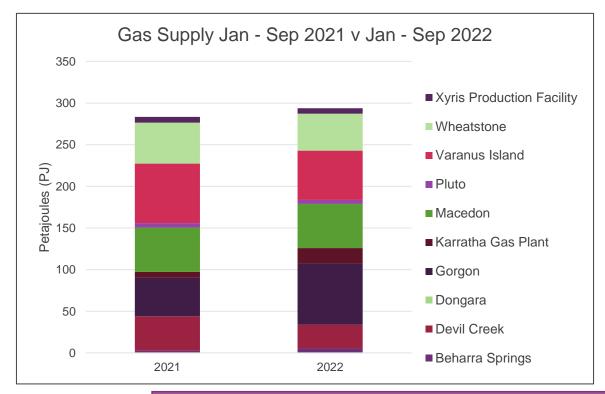


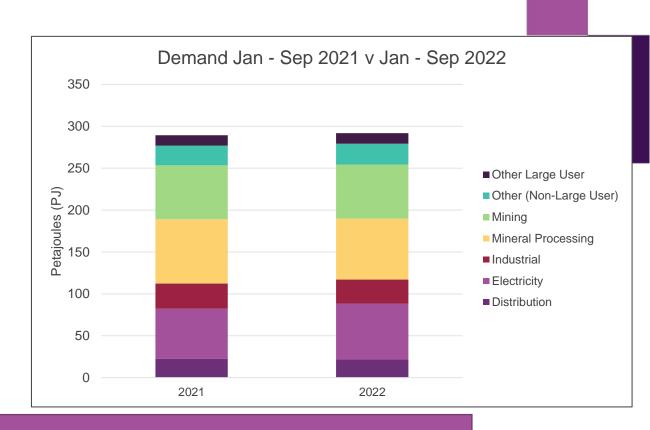










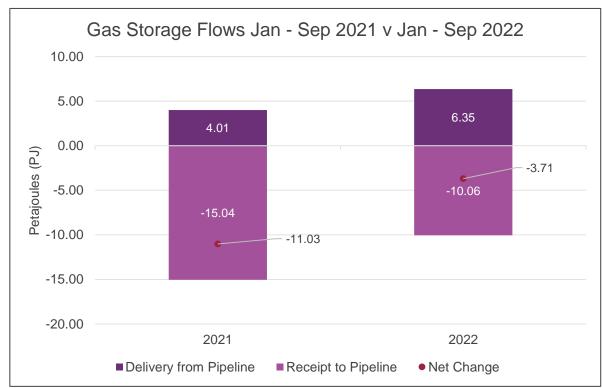


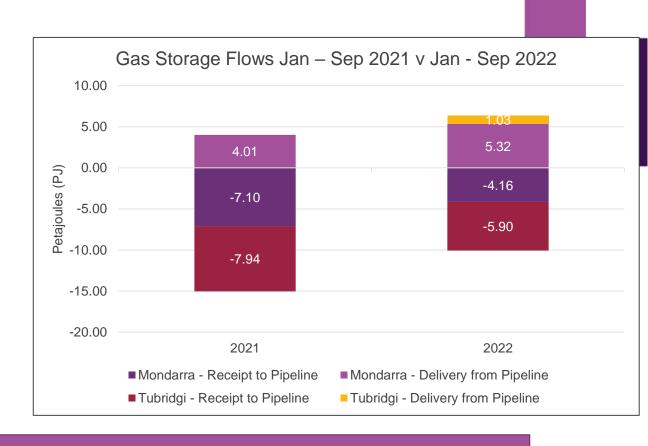
Key Observations

- Total Gas supply increased by approximately 3.6%, exceeding total gas demand by 2 PJ, excess gas production is accounted for through daily changes in storage flows and line pack.
- Consumption for electricity generation increased by 11.5% with small reductions from industrial and mineral processing.









Key Observations

- Net 3.7 PJ of gas flow from Storage Facilities into Pipelines over 2022, a 66% decrease from 2021.
- Net flow of gas from Mondarra Storage Facility decreased by 41% compared to 2021.
- Tubridgi had net delivery from Pipelines of 1.03 PJ compared to 0 PJ in 2021.



2023 WA GSOO review

Consultation on GSOO information

Section 105 of the GSI Rules

(1) AEMO must, at least once in every five year period, conduct a review of the GSOO information. .

...

(2) The review must be carried out in consultation with Gas Market Participants and gas industry groups.

- The last review of the WA GSOO was in 2018
- AEMO proposes to begin the GSOO review in Q1 2023
- The review will be carried out in consultation with gas market participants and gas market groups



Questions and Feedback

Market Operations

wa.operations@aemo.com.au

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